

**Complete if Known**

Application Number	09/920,235
Confirmation Number	5852
Filing Date	8/1/2001
First Named Inventor	Mark William Smith
Art Unit	2878
Examiner Name	Constantine Hannaher
Attorney Docket Number	36032/094

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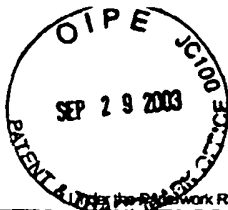
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CH	3	REICHEL, HENRY G., CONNORS, VICKIE S., HOLLAND, ALVIN, HYPES, WARREN D., and WALLIO, ANDREW, "Middle and Upper Tropospheric Carbon Monoxide Mixing Ratios as Measured by a Satellite-Borne Remote Sensor During November 1981, Journal of Geophysical Research, Vol. 91, No. D10, pages 10,865-10,887, September 20, 1986	
CH	4	DRUMMOND, J. R., "Measurements of Pollution in the Troposphere (MOPITT). The Use of EOS for Studies of Atmospheric Physics, pgs. 77-101 (1992)	
	5	MATR MOPITT Airborne Test Radiometer, <a href="http://www.eos.ucar.edu/matr/Welcome.html">http://www.eos.ucar.edu/matr/Welcome.html</a> .	
	6	MOPITT, <a href="http://www.atmosp.physics.utoronto.ca/MOPITT/home.html">http://www.atmosp.physics.utoronto.ca/MOPITT/home.html</a>	
CH	7	WARNER, JUYING X., GILLE, JOHN C., EDWARDS, DAVID P., ZISKIN, DAN C., SMITH, MARK W., BAILEY, PAUL L., and ROKKE, LAURIE, "Cloud detection and clearing for the Earth Observing System Terra satellite Measurements of Pollution in the Troposphere (MOPITT) experiment," Applied Optics, Vol. 40, No. 8, March 10, 2001, pgs. 1269-1284.	
	8	"Gas Correlation Spectroscopy" OPTO-KNOWLEDGE: The Source for Special Imaging - Press, <a href="http://www.techexpo.com/WWW/opto-knowledge/gas-corr.html">http://www.techexpo.com/WWW/opto-knowledge/gas-corr.html</a>	
	9	SANDSTEN, JONAS, EDNER, HANS, SVANBERG, SUNE, and WEIBRING, PETER, "Gas imaging using gas-correlation spectroscopy" <a href="http://www-atom.fysik.lth.se/AFDOCS/Progrep978/c3.htm">http://www-atom.fysik.lth.se/AFDOCS/Progrep978/c3.htm</a>	
	10	SMITH, MARK W., "Technical Report for: MOPITT Airborne Test Radiometer (MATR), March 15, 2000, <a href="http://www.eos.ucar.edu/Matr/Welcome.html">http://www.eos.ucar.edu/Matr/Welcome.html</a>	
	11	"Measurements of Pollution in The Troposphere MOPITT," <a href="http://www.atmosp.physics.utoronto.ca/MOPITT/home.html">http://www.atmosp.physics.utoronto.ca/MOPITT/home.html</a> .	
	12	MOPITT Project, <a href="http://eos.acd.ucar.edu/mopitt">http://eos.acd.ucar.edu/mopitt</a>	
	13	Measurements of Pollution in the Troposphere, MOPITT Overview, <a href="http://www.atmosp.physics.utoronto.ca/MOPITT/overview.html">http://www.atmosp.physics.utoronto.ca/MOPITT/overview.html</a>	

Examiner Signature	<b>CONSTANTINE HANNAHER</b>	Date Considered	OCT 21 2003
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	14	Measurement of Pollution in The Troposphere (MOPITT), Measurement of Pollution in The Troposphere (MOPITT) Program; <a href="http://www.acd.ucar.edu/asr99/MOPITT.html">http://www.acd.ucar.edu/asr99/MOPITT.html</a> .	
	15	CLERBAUX, CATH, HADJI-LAZARO, JULIETTE, "Assimilation of carbon monoxide measured from satellite in a three-dimensional chemistry-transport model," Journal of Geophysical Research, 2000	
CH	16	EDWARDS, D. P., "Improvements to the correlated-k radiative transfer method: Application to satellite infrared sounding," Journal of Geophysical Research, Vol. 105, No. D14, pages 18,135-18,156, July 27, 2000	
	17	BAER-RIEDHART, JENNY, "ERAST: Scientific Applications and Technology Commercialization," Mezzanine Plenary Session	
	18	KHATTATOV, BORIS, LYJAK, LAWRENCE, and GILJE, JOHN, "On Application of Photochemical Models to the Design of Measurement Strategies," Atmospheric Chemistry Division, National Center for Atmospheric Research	
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	20	RODGERS, CLIVE D., "Inverse Methods for Atmospheric Sounding Theory and Practice," Series on Atmospheric, Oceanic and Planetary Physics—Vol. 2, World Scientific	
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CH	22	BAILAK, GEORGE V., et al., "MOPITT airborne validation instrument: MOPITT-A," Part of the SPIE Conference on Optical Spectroscopic Techniques and Instrumentation for Atmospheric and Space Research III, Denver, Colorado, July 1999, SPIE Vol. 3756	
	23	SMITH, MARK, W., "Remote sensing of atmospheric carbon monoxide with the MOPITT Airborne Test Radiometer (MATR), pgs. 1-11	
CH	24	EDWARDS, D. P., et al., "Radiative transfer modeling for the EOS Terra satellite Measurement of Pollution in the Troposphere," Journal of Geophysical Research, Vol. 104, No. D14, pages 16,755-16,775, July 27, 1999	

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CH	25	LAMARQUE, J., et al., "Assimilation of Measurement of Air Pollution from Space (MAPS) CO in a global three-dimensional model," Journal of Geophysical Research, Vol. 104, No. D21, pages 26,209-26,218, November 20, 1999	
CH	26	PAN, LIWEN, et al., "Retrieval of Tropospheric carbon monoxide for the MOPITT experiment," Journal of Geophysical Research, Vol. 103, No. D24, pgs. 32,277-32,290, December 27, 1998	
CH	27	LEVELT, P. F., et al., "Assimilation of MLS ozone measurements in the global three-dimensional chemistry transport model ROSE," Geophysical Research Letters, Vol. 25, No. 24, pgs 4493-4496, December 15, 1998	
CH	28	SMITH, MARK W., et al., "The Measurements of Pollutants in the Troposphere (MOPITT) Airborne Test Radiometer (MATR), The Earth Observer, July/August 1998, Vol. 10 No.4, <a href="http://eosps0.gsfc.nasa.gov/eos_observ/7_8_98/p21.html">http://eosps0.gsfc.nasa.gov/eos_observ/7_8_98/p21.html</a>	
CH	29	TOLTON, BOYD, T., et al., "Characterization of the length-modulated radiometer," Applied Optics, Vol. 36, No. 28, August 1, 1997, pgs. 5409-5420	
CH	30	SMITH, MARK W., "Method and results for optimizing the MOPITT methane bandpass," Applied Optics, Vol. 36, No. 18, June 20, 1997, pgs. 4285-4291	
CH	31	PAN, LIWEN, et al., "Satellite remote sensing of tropospheric CO and CH4: forward model studies of the MOPITT instrument," Applied Optics, Vol. 34, No. 30, October 20, 1995, pgs 6976-6988	
CH	32	ANDERSSON, E., et al., "Use of cloud-cleared radiances in three/four-dimensional variational data assimilation," Q.J.R. Meteorol. Soc. (1194) 120, pgs. 627-653	
CH	33	RUSSELL, JAMES M., III, et al., "The Halogen Occultation Experiment," Journal of Geophysical Research, Vol. 98, No. D6, pgs 10,777-10,797, June 20, 1993	
CH	34	GRASSOTTI, C., et al., "A Study of Satellite Emission computed Tomography," Advances in Remote Sensing Retrieval Methods, RSRM 1987, Deepak Publishing, ISBN 0-937194-13-1	
CH	35	DRUMMOND, J. R., "Novel correlation radiometer: the length-modulated radiometer," Applied Optics, Vol. 28, No. 13, July 1, 1989, pgs. 2451-2452	

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CH	36	REICHLE, HENRY G., et al., "Feasibility of determining the vertical profile of carbon monoxide from a space platform," Applied Optics, Vol. 28, No. 11, June 1, 1989, pgs. 2104-2110	
	37	WYATT, C. L., "Radiometric System Design, Chapter 8 The Radiometric Performance Equation," MacMillan Publishing, pgs. 109-113	
CH	38	LORENC, A. C., "Analysis methods for numerical weather prediction," Quart. J. R. Met. Soc. (1986), 112 pgs. 1177-1194	
CH	39	FLEMING, HENRY E., "Temperature Retrievals via Satellite Tomography," Advances in Remote Sensing Retrieval Methods, A. Deepak, 1985, ISBN 0-937194-07-7 pp. 55-69	
CH	40	FLEMING, HENRY E., "Satellite Remote Sensing by the Technique of Computed Tomography," Journal of Applied Meteorology, Vol. 21, October 1982, pgs. 1538-1549	
CH	41	SMITH, W. L., "The Use of Interferometric Radiance Measurements for Sounding the Atmosphere," Journal of the Atmospheric Sciences, Vol. 36, April 1979, pgs. 566-575	
CH	42	LUDWIG, C. B., "Measurement of Air Pollutants from Satellites. 1: Feasibility Considerations," Applied Optics, Vol. 13, No. 6, June 1974, pgs. 1494-1509	
CH	43	BURCH, D. E., et al., "Instrument to Monitor CH <sub>4</sub> , CO, and CO <sub>2</sub> in Auto Exhaust," October 1973, Philco-Ford Corp. prepared for Environmental Protection Agency EPA-650/2-73-030 PB-226 438	
CH	44	ELLIS, P., et al., "Remote sounding of atmospheric temperature from satellites IV. The selective chopper radiometer for Nimbus 5," Proc. R. Soc. Lond. A. 334, August 28, 1973, pgs. 149-170	
CH	45	TAYLOR, F. W., et al., Radiometer for Remote Sounding of the Upper Atmosphere," Applied Optics, Vol. 11, No. 1, January 1972, pgs. 135-141	
CH	46	HOUGHTON, J. T., et al., "Remote sounding of atmospheric temperature from satellites," Proc. Roy. Soc. Lond. A. 320, pgs. 23-33 (1970)	

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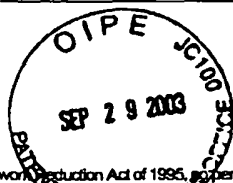
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CH	48	WARK, D. Q., et al., "Indirect Measurements of Atmospheric Temperature Profiles from Satellites: I. Introduction," Monthly Weather Review, Vol. 94, Number 6, June 1966, pgs. 351-362	
CH	49	KAPLAN, LEWIS D., "Inference of Atmospheric Structure from Remote Radiation Measurements," Journal of the Optical Society of America, Vol. 49, Number 10, October 1959, pgs. 1004-1007	
CH	50	KING, JEAN, "The Radiative Heat Transfer of Planet Earth," Scientific Uses of Earth Satellites, The University of Michigan Press 1958	
	51	Atmospheric Absorption, Field Measurements of Atmospheric Transmittance, Fig. 5-31	
	52	PAN, LIWEN, et al., "Analysis and Characterization of the Retrieval Algorithm for Measuring Tropospheric CO <sub>2</sub> using the MOPITT instrument," SPIE Vol. 2830, pgs. 159-168	
CH	53	TAYLOR, F. W., Chapter 3 Pressure Modulator Radiometry," Spectrometric Techniques, Vol III 1983 Academic Press, pgs. 137-197	
	54	TOLTON, BOYD T., et al., "Calibration of a length modulated radiometer," SPIE Vol. 2830, pgs. 253-283	
CH	55	RUSSELL, JAMES M., et al., "Global monitoring of stratospheric halogen compounds from a satellite using gas filter spectroscopy in the solar occultation mode," Applied Optics, Vol. 16, No. 3, March 1977, pgs. 607-612	
CH	56	GOERS, Uta-Barbara, et al., "A PPLN-OPO-based backscatter absorption gas imaging (BAGI) system and its application to the visualization of fugitive gas emissions," Part of the SPIE Conference on Application of Tunable Diode and Other Infrared Sources for Atmospheric Studies and Industrial Processing Monitoring II, Vol 3758, July 1999, pgs. 172-179	
CH	57	ANIOLEK, KENNETH W., "Trace gas detection in the mid-IR with a compact PPLN-based cavity ring down spectrometer," SPIE Vol. 3758, July 1999, pgs. 62-73	

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